

SEQUENCE LISTING

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Ken Phillips
Greg Budziszewski
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Zhenya Glazov

<120> Methods of Controlling Gene Expression

<130> PB/5-31481A

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<170> PatentIn Ver. 2.1

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Ser Ser Ser Ser Ser Ala Ala Pro Thr Val Gln Ala Thr Thr Ser Val
      35           40           45
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 85 90 95
 Arg Ile Leu Tyr Ser Lys Thr Ala Thr Glu Val Asp Lys Arg Ala Met
 100 105 110
 Gln Leu Ile Lys Val Leu Asp Thr Lys Arg Asp Glu Ser Gly Ile Ala
 115 120 125
 Phe Val Gly Leu Asp Ile Glu Trp Arg Pro Ser Phe Arg Lys Gly Val
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 His Leu Ile Glu Asp Ser Thr Leu Val Lys Val Gly Ile Gly Ile Asp
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 Gly Asp Ser Val Lys Leu Phe His Asp Tyr Gly Val Ser Ile Lys Asp
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 Val Glu Asp Leu Ser Asp Leu Ala Asn Gln Lys Ile Gly Gly Asp Lys
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 Lys Trp Gly Leu Ala Ser Leu Thr Glu Thr Leu Val Cys Lys Glu Leu
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 Leu Lys Pro Asn Arg Ile Arg Leu Gly Asn Trp Glu Phe Tyr Pro Leu
 245 250 255
 Ser Lys Gln Gln Leu Gln Tyr Ala Ala Thr Asp Ala Tyr Ala Ser Trp
 260 265 270
 His Leu Tyr Lys Val Thr Thr Thr Lys Asn His Leu Leu Thr Leu Asn
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115 120 125

Ala Ala Leu Gln Ser Val Glu Glu Phe Ala Val Asp Leu Glu His Asn
130 135 140

Gln Tyr Arg Thr Phe Gln Gly Leu Thr Cys Leu Met Gln Ile Ser Thr
145 150 155 160

Arg Thr Glu Asp Tyr Ile Val Asp Ile Phe Lys Leu Trp Asp His Ile
165 170 175

Gly Pro Tyr Leu Arg Glu Leu Phe Lys Asp Pro Lys Lys Lys Lys Val
180 185 190

Ile His Gly Ala Asp Arg Asp Ile Ile Trp Leu Gln Arg Asp Phe Gly
195 200 205

Ile Tyr Val Cys Asn Leu Phe Asp Thr Gly Gln Ala Ser Arg Val Leu
210 215 220

Lys Leu Glu Arg Asn Ser Leu Glu Phe Leu Leu Lys His Tyr Cys Gly
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Val Ala Ala Asn Lys Glu Tyr Gln Lys Ala Asp Trp Arg Ile Arg Pro
245 250 255

Leu Pro Asp Val Met Lys Arg Tyr Ala Arg Glu Asp Thr His Tyr Leu
260 265 270

Leu Tyr Ile Tyr Asp Val Met Arg Met Glu Leu His Thr Met Ala Lys
275 280 285

Glu Asp Glu Gln Ser Asp Ser Pro Leu Val Glu Val Tyr Lys Arg Ser
290 295 300

Tyr Asp Val Cys Met Gln Leu Tyr Glu Lys Glu Leu Trp Thr Arg Asp
305 310 315 320

Ser Tyr Leu His Val Tyr Gly Val Gln Thr Gly Asn Leu Asn Ala Val
325 330 335

Gln Leu Ser Ile Val Ala Leu Gln Gly Leu Cys Glu Trp Arg Asp Arg
340 345 350

Ile Ala Arg Ala Asp Asp Glu Ser Thr Gly Tyr Val Leu Pro Asn Lys
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Thr Leu Phe Asp Ile Ala Lys Glu Met Pro Ile Val Val Ala Gln Leu
370 375 380

Gln Arg Pro Leu Ser Glu Glu Met Val Arg Tyr Ala Arg Thr Asp Ala
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 Tyr Ile Thr Lys Val Ile His Asp Cys Lys Arg Asp Ser Glu Ala Leu
 35 40 45
 Tyr Phe Gln Phe Gly Ile Arg Leu His Asn Val Val Asp Thr Gln Ile
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Glu Arg Leu Ile Val Thr Val Thr His Thr Pro Ser Val Ile Arg Arg
      35             40             45

Trp Ile His Ser Ile Arg Phe Val Ser Arg Leu Arg Leu Ser His Pro
      50             55             60

Leu Val Val Gly Leu Gly Val Gln Trp Thr Pro Arg Gly Ser Asp Pro
      65             70             75             80

Pro Pro Asp Ile Leu Gln Leu Cys Val Gly Thr Arg Cys Leu Ile Ile
      85             90             95

Gln Leu Ser His Cys Lys Tyr Val Pro Asp Val Leu Arg Ser Phe Leu
      100            105            110

Glu Asp Gln Thr Ile Thr Phe Val Gly Val Trp Asn Ser Gln Asp Lys
      115            120            125

Asp Lys Leu Glu Arg Phe His His Gln Leu Asp Ile Trp Arg Leu Val
      130            135            140

His Ile Arg His Tyr Leu His Pro Leu Leu Leu Ser Ser Ser Phe Glu
      145            150            155            160

Thr Ile Val Lys Val Tyr Leu Gly His Glu Gly Val Thr Lys Asp Lys
      165            170            175

Glu Leu Cys Met Ser Asn Trp Gly Ala Arg Ser Leu Ser His Asp Gln
      180            185            190

Ile Val Gln Ala Ser His Asp Val Tyr Val Cys Cys Lys Leu Gly Val

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"062220" 9979696

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35 40 45
Ala Ile Phe Pro Gln Ser Glu Gln Leu Met Ile Tyr Ala Met Thr Arg
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<213> C. elegans

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<212> PRT
<213> C. elegans
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35 40 45
Val Arg Ala Lys Asn Arg Glu Phe Phe Asn Glu Asp Tyr Arg Ser Gly

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Gln	Val	Pro	Leu	Asn	Gly	Glu	Gln	Leu	Phe	Val	Phe	Glu	Asn	Glu	Arg	
385					390					395					400	
Arg	Thr	Gln	Ile	His	Met	Val	Lys	Thr	Glu	Ser	Glu	Met	Asn	Tyr	Leu	
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Cys	Ser	Glu	Ile	Lys	Ser	Leu	Ser	Asp	Glu	Pro	Ala	Pro	Val	Tyr	Val	
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Ser	Lys	Ile	Ala	Ile	Ile	Gln	Leu	Phe	Phe	Lys	Asn	Cys	Val	Trp	Leu	
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Val	Asp	Cys	Val	Glu	Leu	Glu	Lys	Ala	Asn	Met	Ala	Asp	Asp	Trp	Trp	
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660

665

670

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675 680 685

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690 695 700

Arg Val Gly Gly Glu His Leu Arg His Ile Ile Thr Val Pro Ser Lys
705 710 715 720

Ser Tyr Glu Ala Leu Lys Met Asp Tyr Asp Asn Tyr Thr Ile Ala Ile
725 730 735

Pro Glu Leu Asn Asn Met Ser Pro Val Asp Gln Leu Ile Glu Phe Phe
740 745 750

Asp Leu Phe Asn Val Asp Ile Arg Pro Glu Asp Val Tyr Pro Arg Cys
755 760 765

Thr Glu Cys Asn Ser Arg Leu Gln Ile Lys Phe Pro Gly Pro Val Leu
770 775 780

His Phe Leu His Gln Tyr Cys Val Ile His Val Gln Asn Val Tyr Arg
785 790 795 800

Ala Asp Met Ser Glu Phe Pro Leu Glu Glu Trp Trp Asn Arg Met Leu
805 810 815

His Ile Asn Pro Asp Asp Tyr Asp Gly Val Lys Val Glu Met Ser Arg
820 825 830

Pro Ser Pro Thr Ser Lys Trp Ile Val Ala Thr Val Pro Thr Gly Cys
835 840 845

Leu His Ile Thr Arg Gln Thr Ala Leu His Thr Asn Leu Pro Asp Gly
850 855 860

Ile Glu Val Arg Ile His Lys Val Pro Asp Asp Glu Phe Lys Arg Arg
865 870 875 880

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Gln Lys Ile Ile Ala Asp Val Ile Arg Asn Pro Pro Val Asn Ser Asp	1315	1320	1325
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Thr Tyr Leu Ile His Met Ala Ile Glu Ile Leu Lys His Gly Pro Asp	1345	1350	1355
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1430

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Tyr Ile Thr Lys Val Ile His Asp Cys Lys Arg Asp Ser Glu Ala Leu
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Ala Tyr Ser Leu Ile Glu Glu Gln Glu Gly Arg Arg Arg Pro Leu Asp
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Ile Ser Tyr Glu Glu Lys Glu Glu Val Arg Val Leu Met Arg Gln Asp
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Ala Ala Asp Asp Val Arg Phe Leu Leu Tyr Leu Tyr His Lys Met Met
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Leu Leu Ile Val Val Gly Leu Leu Asn Val Ala Asp Asn Leu Lys Ser
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Glu Asp Gln Cys Leu Glu Glu Glu Ile Leu Ser Val Leu Asp Val Pro
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Pro Gly Lys Met Gly Arg Val Ile Gly Arg Lys Gly Ala Ser Ile Leu
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